

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1.-11. (Cancelled)

Claim 12. (New) A method of selecting SAR an MTI transmission patterns and evaluating a received signal of a SAR/MTI pulsed radar system that transmits SAR and MTI pulses with respective definable time variant pulse repetition frequencies PRF_SAR and PRF_MTI, such that the received signal comprises a superimposition of SAR and MTI echo signals, said method comprising:

generating a SAR and MTI pulse pattern with equal or different SAR and MTI pulse repetition frequencies;

using a SAR processing technique to evaluate each SAR echo of an area of interest, which echo is received after a transmitted SAR pulse; and

evaluating remaining pulses of the received echoes in an MTI process, taking into account that some received MTI echoes are missing.

Claim 13. (New) The method according to Claim 12, wherein the ratio of the pulse repetition frequency PRF_MTI to the pulse repetition frequency PRF_SAR amounts to at least 5.

Claim 14. (New) The method according to Claim 12, wherein the ratio of the pulse repetition frequency PRF_MTI to the pulse repetition frequency PRF_SAR is varied from one MTI burst to a next MTI burst.

Claim 15. (New) The method according to Claim 12, wherein the pulse repetition frequency PRF_SAR is between 200 Hz and 400 Hz.

Claim 16. (New) The method according to Claim 12, wherein the pulse repetition frequency PRF_MTI is between 2 kHz and 4 kHz.

Claim 17. (New) Apparatus for implementing the process according to Claim 12, said apparatus comprising an antenna having a plurality of transmitting and receiving modules, wherein the transmitting and receiving modules are combined to form a definable number of subgroups.

Claim 18. (New) The apparatus according to Claim 17, wherein a definable number of transmitting and receiving modules are applied to a common delay link.

Claim 19. (New) The apparatus according to Claim 18, wherein a definable number of delay links are combined and applied to a digital receiving unit comprising an analog-to-digital converter.

Claim 20. (New) The apparatus according to Claim 19, wherein the digital receiving units are connected with devices for digital beam shaping, and for moving target indication according to the STAP process.

Claim 21. (New) The apparatus according to Claim 17, wherein the devices for digital beam shaping and moving target indication are connected with additional devices for the SAR and MTI signal evaluation.

Claim 22. (New) The apparatus according to Claim 18, wherein:

a definable number of delay links are combined into an analog network with a definable number of outputs that are each applied to a digital receiving unit in the form of an analog-to-digital converter; and

the digital receiving units each applied by means of devices for the SAR and MTI signal evaluation.

Claim 23. (New) The method according to Claim 12, wherein, the step of evaluating remaining MTI echoes includes reproducing by interpolation the MTI echo that is absent as a result of the SAR signal processing.